

REMARKS

Upon entry of the present amendment claims 1-4, 6-7, and 9-16 are pending in the application. Claims 1-4, 6-7, and 9-12 have been amended in accordance with the requirements of U.S. patent practice. New claims 13-16 add no new matter, as these claims contain subject matter deleted from the amended claims. Applicants respectfully request entry of the preliminary amendment.

Version with Markings to Show Changes Made

Please cancel claims 5 and 8 without prejudice.

Please amend original claims 1-4 as follows:

1. (Amended) 1. (Amended) A coating material curable thermally and with actinic radiation, comprising

(a1) at least one constituent containing

(a11) at least two functional groups which serve for crosslinking with actinic radiation, and if desired

(a12) at least one functional group which is able to undergo thermal crosslinking reactions with a complementary functional group (a22) in the constituent (a2), and

(a2) at least one constituent containing

(a21) at least two functional groups which serve for crosslinking with actinic radiation, and

(a22) at least one functional group which is able to undergo thermal crosslinking reactions with a complementary functional group (a12) in the constituent (a1),

and also[, if desired, comprising] optionally one or more members selected from the group consisting of (a3) at least one photoinitiator, (a4) at least one thermal crosslinking initiator, (a5) at least one reactive diluent curable thermally and/or with actinic radiation, (a6) at least one coatings additive, and/or (a7) at least one thermally curable constituent, with the proviso that the coating material contains at least one thermally curable constituent (a7) if the constituent (a1) has no functional group (a12).

2. (Amended) The coating material [as claimed in] of claim 1, wherein the functional groups (a11) and (a21) comprise at least one group selected from olefinically unsaturated groups or epoxide groups[, especially olefinically

unsaturated groups, the functional groups (a12) comprise hydroxyl groups, and the complementary functional groups (a22) comprise isocyanate groups].

3. (Amended) The coating material [as claimed in] of claim 1 [or 2], wherein the constituent (a1) comprises a urethane (meth)acrylate and the constituent (a2) comprises at least one member selected from a (meth)acrylate-functional (meth)acrylate copolymer containing free isocyanate groups, [and/or] a (meth)acrylate-functional polyisocyanate, and mixtures thereof.

4. (Amended) A process of sealing [The use of the coating material as claimed in any of claims 1 to 3 for sealing] a substrate selected from the group consisting of SMCs (sheet molded compounds) and BMCs (bulk molded compounds), comprising
_____ applying the coating material of claim 1 to a substrate selected from the group consisting of SMC substrates and BMC substrates to provide a coated substrate, and
_____ curing the coated substrate with actinic and thermal energy to provide a sealed substrate.

6. (Amended) A process for eliminating microbubbles from topcoated microporous substrates, comprising
_____ applying a coating composition to a microporous substrate to provide a coated microporous substrate, said coating composition curable both actinically and,
_____ curing the coated microporous substrate both actinically and thermally to provide a sealed microporous substrate,
_____ applying one or more topcoat coating materials to the sealed microporous substrate to provide a topcoated sealed substrate, and
_____ thermally curing the topcoated sealed substrate to provide a topcoated microporous article having no microbubbles [sealing SMCs (sheet molded compounds) and BMCs (bulk molded compounds) by applying a primer coat of a

coating material and curing the primer coat, which comprises using a coating material as claimed in any of claims 1 to 3].

7.(Amended) An SMC (sheet molded compound) or BMC (bulk molded compound) sealed with the coating material of claim 1[a primer coat producible with the aid of the process as claimed in claim 6].

9.(Amended) An automobile comprising sealed SMC (sheet molded compounds) and/or BMCs (bulk molded compounds) as claimed in claim 7.

10.(Amended) [A process for producing a clearcoat or a multicoat color and/or effect coating system, in which at least one clearcoat film of a coating material curable thermally and with actinic radiation is applied to the surface of a primed or unprimed substrate or, wet-on-wet, to the surface of a basecoat film and, if appropriate, is cured together with the basecoat film, which comprises using as coating material the coating material as claimed in any of claims 1 to 3]The process of claim 6 wherein the thermal cure of the coated microporous article and the topcoated sealed substrate occur simultaneously.

11.(Amended) [A clearcoat or multicoat color and/or effect coating system, producible with the aid of the process as claimed in claim 10]The process of claim 6 wherein the one or more topcoating materials are selected from the group consisting of clearcoats, colored topcoats, effect coating materials, and mixtures thereof.

12.(Amended) An article selected from the group consisting of motor vehicle parts, plastics parts, furniture[item], coils, containers, and [or other part for private or]industrial parts[use, including coils and containers, comprising at least one clearcoat and/or at least one multicoat system as claimed in claim 11] which is made by the process of claim 6.

Please add the following new claims 13-16:


13. (New) The coating material of claim 1, wherein the functional groups (a12) comprise hydroxyl groups.

14. (New) The coating material of claim 1, wherein the functional groups (a22) comprise isocyanate groups.

15. (New) The coating material of claim 2, wherein the functional groups (a11) and (a21) are olefinically unsaturated groups.

16. (New) The process of claim 6 wherein said coating composition comprises
at least one constituent (a1) having at least two functional groups (a11)
and no functional groups (a12),
at least one constituent (a2) having at least two functional groups (a21)
crosslinkable with actinic radiation and at least one functional group (a22) which
undergoes thermal crosslinking,
at least one thermally curable binder, and
at least one thermally curable crosslinking agent.

Respectfully Submitted,


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